



## Makrolon<sup>®</sup> FC sheet

### Formable hardcoat

Makrolon<sup>®</sup> FC is a transparent polycarbonate sheet that has a formable coating on both sides. This abrasion resistant product can be cold formed or drape formed to mild radii and is suitable for exterior applications. Makrolon FC has excellent resistance to damage from windborne debris and has outstanding impact strength. This product complies with ANSI Z26.1 Item AS-6 which covers transportation glazing applications.

### Applications

Formed industrial applications,  
face shields, recreational  
vehicle windscreens

Typical Properties*			
Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Specific Gravity	ASTM D 792	-	1.2
Light Transmission, Clear @ 0.118"	ASTM D 1003	%	86
Chemical Resistance	ANSI Z26.1	-	Pass
Taber Resistance @ 100 Cycles, Delta Haze CS-10F Wheel @ 500 gm load	ASTM D 1044	%	4
<b>MECHANICAL</b>			
Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Flexural Strength	ASTM D 790	psi	13,500
Compressive Strength	ASTM D 695	psi	12,500
Flexural Modulus	ASTM D 790	psi	345,000
Instrumented Impact @ 0.118"	ASTM D 3763	ft-lbs	>45
<b>THERMAL</b>			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 <sup>-5</sup>
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	280

\*Typical properties are not intended for specification purposes.



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